

Colombes, November 29th 2013

Arkema presents its various materials for “additive manufacturing” and molding technologies at the EuroMold trade show

A world leader in high performance polymers, Arkema offers a diverse range of materials for the manufacture of prototypes and functional technical short runs, using “additive manufacturing”. Arkema will showcase its product range at the 20th edition of EuroMold, the global trade show for Moldmaking and Tooling, Design and Product Development, held in Frankfurt from December 3th to 6th.

High quality parts fulfilling surface finish or mechanical properties requirements thanks to fine powders for Laser Sintering

- *Orgasol[®] Invent Smooth*, a polyamide 12 powder imparting unrivaled touch requiring no post-treatment to parts produced by LS, and allowing an unmatched recyclability rate in this process.
- *Rilsar[®] Invent Natural*, a polyamide 11 fine powder, 100% sourced from a renewable raw material, specially developed for the LS process, and suitable for use on all types of LS machines. *Rilsar[®] Invent Natural* ensures excellent resolution in the detail of the parts, combined with straightforward machine processing, and excellent mechanical properties.
- *Rilsar[®] Invent Black*, a polyamide 11 powder featuring the same properties as *Rilsar[®] Invent Natural*, used to produce intense black parts.

The qualities of these powders make it a most suitable solution for functional prototype manufacture, as well as limited-run (rapid) manufacturing.

PEKK, polyether ketone ketone, a polymer that pushes back the boundaries of thermoplastics

PEKK is an ultra high performance polymer: it offers a number of properties that place it at the top of what is accessible among thermoplastics in terms of mechanical strength, temperature stability, flame retardancy, and chemical resistance in particular. It is also a unique product in the polyaryletherketone (PAEK) family through its great processing versatility. In fact it can be used in a very wide range of melt processes, from natural granules or granules with fillers, or powders: injection molding, extrusion of pipes, sheets, films, rods and plates, calendaring and thermoforming, welding, coating, sintering, impregnation of fibers, composites.

Thanks to these characteristics, it significantly extends the scope of possibilities whenever the following specifications are required: metal substitution, weight reduction, mechanical performance, corrosion resistance, simpler design or manufacture of parts and sub-assemblies in high-tech sectors: aerospace, oil prospecting and production, and industrial equipment and machinery.

As part of EuroMold, Arnaud Lemaitre will present on December 5 at the seminar "Materials for resource-efficient products with generative techniques" Arkema's solutions for additive manufacturing.

*A global chemical company and France's leading chemicals producer, **Arkema** is building the future of the chemical industry every day. Deploying a responsible, innovation-based approach, we produce state-of-the-art specialty chemicals that provide customers with practical solutions to such challenges as climate change, access to drinking water, the future of energy, fossil fuel preservation and the need for lighter materials. With operations in more than 40 countries, some 14,000 employees and 10 research centers, Arkema generates annual revenue of approximately €6.4billion, and holds leadership positions in all its markets with a portfolio of internationally recognized brands.*

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